

PROJECT DESCRIPTION

I. GENERAL

This project involves the reconstruction of the existing Traffic Control Signal with interconnect, red light camera, traffic surveillance camera, video detection and street lighting at the intersection of MD 97 (Georgia Ave) and MD 185 (Connecticut Avenue) in Montgomery County. MD 97 (Georgia Ave) is assumed to run a north-south direction.

II. INTERSECTION OPERATION

1. The intersection is to operate in a NEMA six-phase, semi-actuated mode, with the MD 97 (Georgia Ave) approaches running concurrently. Exclusive/Permissive left turn phases will remain on both approaches of MD 97 (Georgia Ave). The MD 185 (Connecticut Avenue) approaches shall continue to operate as a side street split phase. Pedestrian phases with pushbutton actuation shall remain in operation across both legs of MD 97 (Georgia Ave) including additional pushbuttons located in the medians. The pedestrian phases crossing both legs of MD 185 (Connecticut Avenue) shall remain on recall.
2. A full-traffic-actuated, eight-phase controller with two (2) four channel, rack mount loop detector amplifiers, L.A.U. and L.A.U. Panel housed in a NEMA size "6" base-mounted cabinet shall be installed at this intersection.

III. SPECIAL NOTES

1. The Contractor shall be responsible for terminating all signal cables, excluding interconnect, to the appropriate terminals and shall properly label each cable.
2. Disconnecting and splicing of interconnect cable shall be performed by Montgomery County Forces. The contractor shall run the interconnect cable into the base of each cabinet and properly tag the cable. Contact Mr. Bob Gonzales at (240) 777-8761 seventy-two hours in advance of intended work.
3. All underground and overhead utilities shown on these plans are schematic only and may not be complete. The Contractor shall be responsible for notifying Miss Utility prior to construction so that all utilities may be located in the field. If the Contractor perceives that a conflict between the utilities and the traffic signal will occur, the Contractor shall notify the Project Engineer immediately so that the conflict may be resolved.

EQUIPMENT LIST

A. EQUIPMENT TO BE SUPPLIED BY S.H.A..

ITEM NO.	DESCRIPTION	QUANTITY
9042	Controller ASC II with telemetry	1 EA
9044	Controller cabinet, size "6"	1 EA
9087	Video detection interface equipment: 5-8 cameras (To be installed by signal shop).	1 EA
9571	Sheet aluminum signs to consist of: (mast arm mount)	118 SF
	D3-2 "Georgia AVE <14000"/ "Georgia AVE 14000>" sign (dual faced) (variable x 16").	2 EA
	D3-2 "Connecticut AVE <14000"/ Connecticut AVE 14000>" sign (dual faced) (variable x 16").	2 EA
	R10-12 "LEFT TURN YIELD ON GREEN (BALL)" sign, (36" x 42").	1 EA
	R3-6R "THRU ONLY" sign, (30" x 36").	1 EA
	R3-5R "RIGHT TURN ONLY" sign, (30" x 36").	1 EA
	R3-5L "LEFT TURN ONLY" sign, (30" x 36").	5 EA
	R3-6 "LEFT TURN AND THRU" sign, (30" x 36").	1 EA
	R3-6R "RIGHT TURN AND THRU" sign, (30" x 36").	1 EA
	LAU Package. (Furnished by Montgomery County)	1 EA

EQUIPMENT LIST (CONT)

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR

ITEM NO.	DESCRIPTION	QUANTITY
1001	MAINTENANCE OF TRAFFIC	3 EA
2001	CLASS 2 EXCAVATION	4 CY
2002	TEST PIT EXCAVATION	4 CY
6004	4 INCH CONCRETE SIDEWALK	300 SF
8001	CONCRETE FOUNDATION	13 CY
8002	12 IN PED SIG HEAD SECTION (BLACK FACED)	20 EA
8003	3" BLIND COUP WELDED & GALV	1 EA
8008	CONTROL CABLE, 200 FOOT, VIDEO DETECTION	3 EA
8009	CONTROL CABLE, 300 FOOT, VIDEO DETECTION	1 EA
8010	CONTROL CABLE, 400 FOOT, VIDEO DETECTION	1 EA
8018	PED POLE (14')	1 EA
8019	REM & DISPOSE MAT & EQUIP PER ASSIGN	1 EA
8024	DISCONNECT, PULL-BACK & REROUTE CABLE	90 LF
8030	NO. 6 AWG STANDARD BARE COPPER GROUND WIRE	1985 LF
8037	4 INCH SCHEDULE 80 RIGID PVC CONDUIT - BORED	365 LF
8039	3 INCH SCHEDULE 80 RIGID PVC CONDUIT- TRENCHED	115 LF
8040	4 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED	150 LF
8046	ELECTRICAL UTILITY SERVICE EQUIPMENT 120/240 VOLTS 60 AMPS	1 EA
8053	FURNISH AND INSTALL ELECTRICAL HANDHOLE	2 EA
8056	INSTALL OVERHEAD SIGN	118 SF
8057	VIDEO DETECTION CAMERA	5 EA
8066	STEEL POLE WITH TWIN 50 FOOT AND 70 FOOT MAST ARMS	2 EA
8069	12 - PAIR COMMUNICATION CABLE, JELLYFILLED (UNDERGROUND)	350 LF
8070	250 WATT HIGH PRESSURE SODIUM LAMP AND LUMINAIRE	2 EA
8074	GROUND ROD - 3/4 INCH DIAMETER X 10 FOOT LENGTH	4 EA
8076	12 INCH VEHICULAR TRAFFIC SIGNAL HEAD SECTION (BLACK FACED)	47 EA
8078	FURNISH AND INSTALL 4 CONDUCTOR OPTICON CABLE	450 LF
8082	ELECTRICAL CABLE - 2 CONDUCTOR NO. 14 AWG	1200 LF
8084	ELECTRICAL CABLE - 5 CONDUCTOR NO. 14 AWG	1675 LF
8085	ELECTRICAL CABLE - 7 CONDUCTOR NO. 14 AWG	1410 LF
8086	ELECTRICAL CABLE- 2 CONDUCTOR NO. 12 AWG TC	430 LF
8089	PUSHBUTTON AND SIGN	5 EA
8090	15 FOOT LIGHTING ARM ON SIGNAL STRUCTURE	2 EA
8095	INSTALL CONTROLLER AND CABINET - BASE MOUNT	1 EA
8096	REMOVE CONCRETE FOUNDATION 12 INCHES	5 EA

EQUIPMENT LIST (CONT)

C. EQUIPMENT TO BE REMOVED AND RETURNED

ITEM NO.	DESCRIPTION	QUANTITY
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Deliver removed controller, and cabinet to Montgomery County.

1 EA

All other equipment to be removed is to become property of the contractor.

The contact persons for District #3 (Montgomery County) are as follows:

Mr. Lee Starkloff
Assistant District Engineer - Traffic
Phone: (301) 513-7318

Mr. Raleigh Medley
Assistant District Engineer - Maintenance
Phone: (301) 513-7304

Mr. Augie Rebish
District Engineer - Utility
Phone: (301) 513-7350

Mr. Richard L. Daff, Sr.
Chief, Traffic Operations Division
Phone: (410) 787-7630

Mr. Robert Gonzales
Montgomery County Transportation Management Center
Phone: (240) 777-8761

THE POWER COMPANY REPRESENTATIVE IS:

Steve Custer
PEPCO
4061 Powder Mill Road
Suite 600 Center Park II
Calverton, MD 20705
Phone: 301 931-2880



MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
MD 97 (GEORGIA AVENUE) AND
MD 185 (CONNECTICUT AVENUE)

DRAWN BY: ROB CICCINI	F.A.P. NO.	TS NO.	SHEET NO.
CHECKED BY: R ZACHERL	S.H.A. NO.	31 G	3 OF 3
SCALE: NONE	COUNTY: MONTGOMERY	T.I.M.S. NO. F286	
DATE: 2/3/03	LOG MILE: 15009707.00		